KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054.

Tel.: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

Report No. : KTH/C.AGG/1224-1960/2013-2014 **Date: 29.07.2013**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Kodigehalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of dry waste collection centert Amruthanagara in Ward No.7, Kodigehalli Sub Division.

Name of Contractor* : M/s. KRIDL, Bangalore.

Source of Sample : Supplied by the Contractor.

Sample Received on : 24.07.2013.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 40mm & down size

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	63	100	100	100	Sample confirms to Single Size for IS: Stipulation of 40mm size Aggregate
2	40	86.1	85 to 100	95 to 100	
3	20	10.5	0 to 20	30 to 70	
4	12.5	-	0 to 20	-	
5	10	-	0 to 5	10 to 35	
6	4.75	-	-	0 to 5	

Sl. No.	Test Conducted	Identification mm	Results	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	40	11.16	Not specified
2	Elongation Index (%)	40	16.42	Not specified
3	Impact Value (%)	40	22.67	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C)
TECHNICAL MANAGER

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Report No. : KTH/F.AGG/1224-1961/2013-2014 **Date: 29.07.2013**

TEST REPORT ON AGGREGATE

(Fine Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Kodigehalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of dry waste collection centert Amruthanagara in Ward No.7, Kodigehalli Sub Division.

Name of Contractor* : M/s. KRIDL, Bangalore.

Source of Sample : Supplied by the Contractor.

Sample Received on : 24.07.2013.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Fine Aggregate

Sl. No.	Sieve size mm	% Passing	IS : 383 – 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100	100	100	100	100	Falls in Zone –II as per table 4 of IS-383 – 1970.
2	4.75	94.7	90 – 100	90 – 100	90 – 100	95 - 100	
3	2.36	85.4	60 – 95	75 – 100	85 – 100	95 - 100	
4	1.18	58.7	30 – 70	55 – 90	75 – 100	90 - 100	
5	0.600	37.4	15 – 34	35 – 59	60 – 79	80 - 100	
6	0.300	11.2	5 – 20	8 – 30	12 – 40	15 to 50	
7	0.150	2.7	0 – 10	0 – 10	0 – 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 – 1970 Stipulations
1.	Silt Content (%)	1.39	-

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For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C)
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Report No. : KTH/CEMENT/1224-1962/2013-2014 **Date: 02.08.2013**

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer* : **The Assistant Executive Engineer,**
Kodigehalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of dry waste collection centert Amruthanagara in Ward No.7, Kodigehalli Sub Division.

Name of Contractor* : M/s. KRIDL, Bangalore.

Source of Sample : Supplied by the Customer.

Type of cement* : Ordinary Portland Cement (OPC)

Brand of cement* : Zuari 53 Grade.

Sample Received on : 24.07.2013.

Period of test : 25.07.2013 to 01.08.2013.

Technical Reference : IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	29.0 %	Not specified	-
2	Initial setting time	172 minutes	Shall not be less than 30 minutes	P
3	Final setting time	263 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72 ± 1h (3 days) b.168 ± 2h (7 days) c. 672 ± 4h (28 days)	 28.37 MPa 39.69 MPa T.T.C	 Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	 P P -
5	Fineness (By Blaine's air permeability method)	334.58 m^2/kg	Shall not be less than 225m 2/kg	P
6	Soundness (Le-chatlier's method)	1.02 mm	Shall not be more than 10 mm	P

P: Passes IS requirement F: Fails IS requirement T.T.C: Test To be Conducted.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C.)
TECHNICAL MANAGER

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Report No.: KTH/ST/1224-1963/2013-2014 **Date: 29.07.2013**

PHYSICAL TEST REPORT ON STEEL BARS

Name of the Customer* : **The Assistant Executive Engineer,**
Kodigehalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of dry waste collection centert Amruthanagara in Ward No.7, Kodigehalli Sub Division.

Name of Contractor* : M/s. KRIDL, Bangalore.

Source of Sample : Supplied by the Contractor.

Sample Received on : 24.07.2013.

Nature of Sample* : Reinforcement steel – 10mm & 12mm.

Technical Reference : Tensile IS: 1786 – 2008 & IS: 1608–1995 (Reaffirmed–2000)
Bend & Re-bend IS: 1786 – 2008 & IS: 1599 - 1985 (Reaffirmed–2000)

Grade of Steel* : Fe-415.

TENSILE TEST :

Dia (mm)	**10**	**12**	**Limits as per IS : 1786-2008, Gr. Fe 415**
Weight / unit length (kg/m)	0.594	0.872	10mm – 0.574 Min 12mm – 0.844 Min
Yield Stress (N/mm^2)	517.32	542.16	415 Min
Tensile Strength (N/mm^2)	601.25	616.24	10% More than actual 0.2% proof stress but not less than 485 N/mm2
% Elongation (on 5.65 $\sqrt{A}$G.L)	20.0	20.5	14.5 Min.

BEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	10	3 dia	No cracks observed. Passes the test.
2.	12	3 dia	No cracks observed. Passes the test.

REBEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	10	5 dia	No cracks observed. Passes the test
2.	12	7 dia	No cracks observed. Passes the test.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C.)
TECHNICAL MANAGER

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E-Mail : kthblr@gmail.com Web Site : www.karnatakatesthouse.com

Report No. : KTH/CT/1226-1975/2013-2014 **Date: 05.08.2013**

TEST REPORT ON CONCRETE CUBES

To,

The Assistant Executive Engineer,
Kodigehalli Sub Division,
BBMP Bangalore.

Name of the Project*: - Construction of dry waste collection centert Amruthanagara in Ward No.7, Kodigehalli Sub Division.

Name of the Contractor* : M/s. KRIDL, Bangalore.

Sample Received on: 03.08.2013

Compressive Strength test as per IS: 516-1959 (Reaffirmed 1999) has been conducted on the concrete cube specimens, supplied by the Customer and the results are tabulated here below:

Dimension of Specimen: 150mmx150mmx150mm

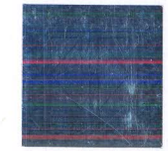
Sl. No	Cubes pertaining to the concrete cast at*(Details of structural member identification)	Grade of Concrete*	Date of casting*	Date of Testing	Age of Concrete on the date of test**	Contact area (mm^2)	Weight of Specimen (Kg)	Load in KN	Compressive Strength in N/mm^2
1.	Pavement Concrete	M_{20}	28.07.2013	04.08.2013	7 days	22500	8.100	331	14.71
2.	"	"	"	"	"	"	8.080	316	14.04
3.	"	"	"	"	"	"	8.090	342	15.20

1 N/Sq.mm = 10Kg/Sq.cm.(Approx.)
*As Furnished by the Customer
**Based on the data furnished by the Customer
Note: A minimum of three cube specimens shall be supplied for testing as per IS:516-1959.

for ***KARNATAKA TEST HOUSE PVT. LTD.***

KARNATAKA TEST HOUSE PVT. LTD. BANGALORE-54

(SREENIVASA.C.)
TECHNICAL MANAGER



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